CONTENTS

Chapter 1.	Null-plane dynamics of particles and fields F. COESTER	1
Chapter 2.	The color dielectric model of QCD H. -J. PIRNER	33
Chapter 3.	The physics of nucleon–antinucleon annihilation C. B. DOVER, T. GUTSCHE, M. MARUYAMA and A. FAESSLER	87
Chapter 4.	Pionic charge exchange in nuclei H. CLEMENT	175
Chapter 5.	Experimental study of shell-model occupancies employing a new sum rule P. GRABMAYR	251
Chapter 6.	Nuclear molecular resonances L. SATPATHY	327
Chapter 7.	Discovery of the transfermium elements R. C. BARBER, N. N. GREENWOOD, A. Z. HRYNKIEWICZ, Y. P. JEANNIN, M. LEFORT, M. SAKAI, I. ULEHLA, A. H. WAPSTRA and D. H. WILKINSON	453